Type 1 Facility Closeout Report

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Section A. Facility Data		
	ilding 560	
	oling Tower	
,	SS: B559 Area 7	
Date of Demolition: 10/		
		vironmental releases occurred, Concrete basin & buried piping
left	in place and will b	e removed along with B563 demolition
(Must include information on envir	onmental releases and	conditions of site at turnover to Environmental Restoration)
Section B. Final Characteris	zation Data	
Reconnaissance Level Charact	erization Report	RLCR approval letter dated 11/14/01
(concurrence received)		
In-process Characterization		Release Evaluation Form #s 011108-00559-001, -002, -003
Pre-Demolition Survey Report		N/A Type 1 facility
Post-Demolition Survey Repor	t (as necessary)	N/A Type 1 facility
Section C. Waste Data (com	nlete categories a	s annronriate)
Sanitary Disposal		ion debris (wood, metal, fiberglass and concrete)
Disposal Site:		ange Landfill, Erie, CO
Waste Volume (m³):		mately 60 yd'
Waste Weight (tons):	Not Ava	
Additional Information:		
	27/4	
Hazardous Disposal	N/A	
Disposal Site:		
Waste Volume (m³): Additional Information:		
Additional Information:		
TSCA Waste Disposal	N/A	
Disposal Site:		
Waste Volume (m³):		
Additional Information:		
Asbestos Waste Disposal	Demolit	ion debris consisting of friable asbestos
Disposal Site:	TRS: Bu	nilding 706 – Roll-off #C1014
Waste Volume (m³):		mately 1 yd3 - Also, 20 yd3 non-friable to Front Range
	Landfill	Erie, CO
Additional Information:		
Low-Level Waste Disposal	N/A	
Disposal Site:		
Waste Volume (m ³):		
Additional Information:		
Low-Level Mixed Waste Dispo	sal N/A	
Disposal Site:		
Waste Volume (m3):		
Additional Information:		
Recycled Material	N/A	
Recycle Facility:	1471	
Waste Volume (m ³):	-	
Additional Information:		
	NT/A	
Property Disposition Receiver Locations (major item	N/A	
Volume (m³):		
Weight (tons):		
Additional Information:		



Type 1 Facility Closeout Report

Section D. Approvals Kaiser-Hill Project Manager		may le	8/21/02
	Name/Signature		Date



Property	Waste	Sample

RELEASE EVALUATION FORM



Page 1 of 2 Release Evaluation No.: 011108-00559-001 EXTENDED: No EXPIRES: N/A Charge No.: EFD42CTD PART I SENDER/CUSTODIAN ACKNOWLEDGEMENT Description of Property/Waste/Sample To Be Released/Transferred: Approximately 60 yd3 of demolition debris that consists of wood, metal, fiberglass, and concrete. Current Location: Building 560 Destination: Front Range Landfill; Erie, Colorado New Recipient/Custodian: Initially, Linda Golden at extension 5554. Ultimately, Republic Services of Colorado; Front Range Landfill Eric, Colorado. History/Process Knowledge: The demolition debris consists of wood, metal, fiberglass, and concrete. The subject demolition debris is from the demolition of the B560 cooling tower. B560 is the non-functional cooling tower associated with the B559 cluster. Furthermore, B560 has never been included in the B559 RBA/CA. Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No 1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate. 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation. 101 Ext: 4/6/ Sender/Custodian: Emp. No: Nancy/Jense PART II RADIOLOGICAL ENGINEERING SPECIFIC REQUIREMENTS AND/OR COMMENTS: Based on the cooling tower's (B560) process history, the likelihood of DOE enhanced radioactive material being present within the subject demolition debris is extremely remote. In addition, B560 was never a part of the B559 CA/RBA. Past and present B560 surveys indicate no history of surface contamination. However, additional alpha surveys are required as part of the demolition and disposal process. A minimum of fifteen total surface activity (TSA) and fifteen removable surface activity measurements for alpha contamination will be performed. In addition, fifteen 1 m² alpha scans will be performed around each of the above mentioned survey locations. These fifteen survey locations will be on the interior portions of B560. Therefore, the subject demolition debris can be released to the Front Range Landfill in Erie, Colorado provided that alpha unrestricted release limits, as described in the RFETS RCM, Appendix 2-2, are not exceeded. mmi Emp. No: Radiological Engineer APPROVAL FOR TRANSFER/SHIPMENT Date: 11-39-11 Ext: 6826 Approved: Emp. No:

Radiological Engineer

`OPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 011108-00559-001 Page 2 of 2



Release Evaluation for Waste:

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page __ of __, initials of Radiological Engineer signing approval for transfer/shipment and date.

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RADIOLOGICAL CONTAMINATION SURVEY FORM

011108-00\$\$9-001 TOTAL GAMMA RECOMD **MA** REMOVEABLE ALPHA BETA 1 SURVEY RESULTS (dpm/100cm2) LOCATION / DESCRIPTION SWIPE SKETCH 6-15 (Jood

70

	Property	Waste	Sample
RELEASE EVALUATION FORM	4 ©) (A)	Y
Page 1 of <u>2</u>		/ U	u
Release Evaluation No.: 011108-00559-002 EXTENDED: No EXPIRES: NA	L Charge	e No.: EFD420	CTD
PARTI SENDER/CUSTODIAN ACKNOWLEDGEMENT	_		-
Description of Property/Waste/Sample To Be Released/Transferred: Approximately 20 yd non-friable asbestos containing demolition debris.	of Transite	panels and of	ther associated
Current Location: Building 560			
Destination: Front Range Landfill; Erie, Colorado	•		•
New Recipient/Custodian: Initially, Linda Golden at extension 5554. Ultimately, Republic Landfill Brie, Colorado.	· : Services of	Colorado; Pro	ont Range
History/Process Knowledge: The demolition debris consists of Transite panels and of containing debris. The subject demolition debris is from the demolition of the B560 coo cooling tower associated with the B559 cluster. Furthermore, B560 has never been include asbestos containing pipe from the B709 Cooling Tower were also added to the subject B560 for further details affiliated with the subject pipe sections.	oling tower. ded in the B	B560 is the n 3559 RBA/CA.	non-functional . Sections of
Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive	ve materials	7 <u>No</u>	
1) By signing below, I certify information provided in Part I of this release evaluation to be 2) By signing below, I agree to comply with the specific requirements noted in Part II of the Sender/Custodian:	true and ac is release ev	courate. /aluation. // Ol Ext:	116
PART II RADIOLOGICAL ENGINEERING		-	<u></u>
SPECIFIC REQUIREMENTS AND/OR COMMENTS: Based on the cooling tower's of DOB enhanced radioactive material being present within the subject demolition debris is was never a part of the B559 CA/RBA. Past and present B560 surveys indicate no history additional alpha surveys are required as part of the demolition and disposal process. A m (TSA) and fifteen removable surface activity measurements for alpha contamination will be upon the performed around each of the above mentioned survey locations. These naterior portions of B560. Therefore, the subject Transite panels, pipe sections, and miscell demolition debris can be released to the Front Range Landfill in Erie, Colorado provided the described in the RFETS RCM, Appendix 2-2, are not exceeded.	is extremely y of surface inimum of the performe e fifteen sur- laneous non that alpha un	remote. In acceptanting the contamination fifteen total sured. In additionate very locations to friable asbester.	ddition, B560 on. However, urface activity a fifteen 1 m ² will be on the tos containing case limits, as
APPROVAL FOR TRANSFER/SHIPMENT Emp. No. Date	no: 41/39/1	2/ Ext: 80	9-8
Redicional Engineer			

PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 011108-00559-002 Page 2 of 2

Release Evaluation for Waste:



A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

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Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."

Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page __ of __ initials of Radiological Engineer signing approval for transfer/shipment and date.

PSTSCHIda Print Name

Signature

3-PRO-164-RSP-07.01 (effective 7-12-01)

Date Reviewed: 11 14 61 RS Supervision:

PAGE 2 OF 2 RADIOLOGICAL CONTAMINATION SURVEY FORM

272 Stelou ALPHA BETA meaces 1 1/1/1 REMOVEABLE SURVEY RESULTS (dpm/100cm2) LOCATION / DESCRIPTION SWIPE # @@B\ All survey taken inside-side of pands or sheets SKETCH E 9



Print Name

Signature

011108-00559-002; ATTACHMENT D' 11/12/9/01 TOTAL 100 Z #fcom PAGE 2 OF A DAMMA REMOVEABLE NIG NA ALPHA BETA SURVEY RESULTS (dpm/100cm2) RADIOLOGICAL CONTAMINATION SURVEY FORM LOCATION / DESCRIPTION SWIPE Side panel

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COPY RELEASE EVALUATION FORM
Page 1 of <u>2</u>
Release Evaluation No.: 011108-00559-003 EXTENDED: No EXPIRES: NA Charge No.: EFD42CTD
PART I SENDER/CUSTODIAN ACKNOWLEDGEMENT
Description of Property/Waste/Sample To Be Released/Transferred: Approximately one yd ³ of demolition debris that consists of friable asbestos.
Current Location: Building 560
Destination: TRS; Building 706; Roll-Off Container # C1014
New Recipient/Custodian: Jeff Tucker at extension 5554
History/Process Knowledge: The demolition debris consists of friable asbestos. The subject friable asbestos containing demolition debris is from the demolition of the B560 cooling tower. B560 is the non-functional cooling tower associated with the B559 cluster. Furthermore, B560 has never been included in the B559 RBA/CA.
Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No
1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate. 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation. Sender/Custodian:
PART II RADIOLOGICAL ENGINEERING
SPECIFIC REQUIREMENTS AND/OR COMMENTS:
No surveys required. Based on the cooling tower's (B560) process history, the likelihood of DOE enhanced radioactive material being present within the subject friable asbestos is extremely remote. In addition, B560 was never a part of the B559 CA/RBA. Past and present B560 surveys indicate no history of surface contamination. Therefore, the subject friable asbestos containing demolition debris can be released to the TRS Roll-Off Container # C1014 at B706 pending final disposition. Evaluated: Date: 11-8-01 Ext. 33.70
Radiological Engineer
APPROVAL FOR TRANSFER/SHIPMENT
Approved:Emp. No:Date:Ext:

PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 011108-00559-003 Page 2 of 2



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PRO-141-RSP-09.01, effective 6/30/01